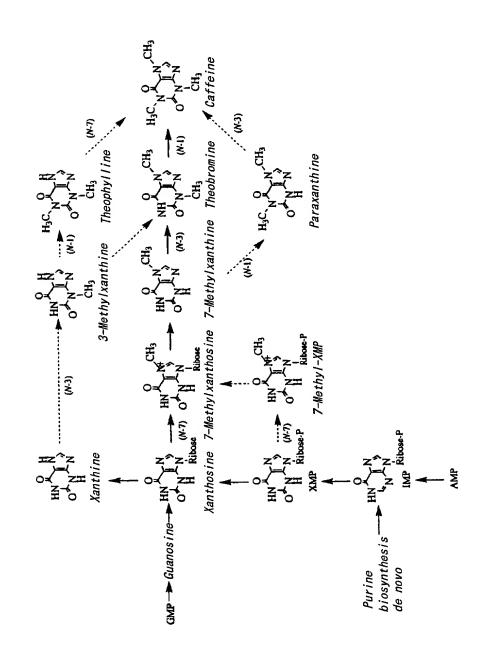
TITLE: THEOBROMINE SYNTHASE POLYPEPTIDE OF COFFEE

PLANT AND THE GENE ENCODING SAID POLYPEPTIDE

INVENTOR(S): HIROSHI SANO ET AL

APPLICATION SERIAL NO: UNASSIGNED

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FIG. 2

```
GTCCTGCATA TGAATGGAGC TCCAAGAAGT CCTGCATATG MATGGAGGCG AAGGCGAAGC AAGCTACGCC AAGAATTCAT CCTTCAATCA
998
                                                                                                          1080
1170
 AAAGCTTGTT TTTAGTTGGT TITTGTGTTA TGGGTTGTTT TCTGATACGG GGAAAGGATT CAGTGCGGTT GGGGTTCTAT CCGAGTATTG
TACTTTTTAT ATTATTAGTT GGTGTATAAA TATTATGTTA CATTGTTATA TTCGTAATAA AAGTGACGTA CAAAAATAAA ATATTTTCAT
TITAGCAGTE CCAATTCGAT TTATGTACAA GTCCTGCATA TGAATGGAGC TCCAAGAAGT CCTGCATATG AATGGAGGGG AAGGCGATGC
                                                                                                           810
                                                                                                          1080
С
720
                                                                                                          810
900
990
                                                                                                          1080
 TGGTGTGTAA GAATAAGATA TITGACATAT ATTATTITCA AAAAAAAAA AAAAAA
 AGCAGTEGEA ATTEGATTGT CETGEATATG AATGGAGETE CAAGAAGTEE TGEATATGAA TGAAGGTGAA GGEGATACAA GETACGEECAA
 GAATGCATCC TACAATCTGG CTCTTGCCAA GGTGAAACCT TTCCTTGAAC AATGCATACG AGAATTGTTG CGGGCCAACT TGCCCAACAT
CAACAAGTGC ATTAAAGTTG CGGATTTGGG ATGCGCTTCT GGACCAACA CACTTTTAAC AGTGCGGGAC ATTGTGCAAA GTATTGACAA
AGTTGGCCAG GAAGAGAAGA ATGAATTAGA ACGTCCCACC ATTCAGATTT TTCTGAATGA TCTTTTCCAA AATGATTTCA ATTCGGTTTT
 CAAGTTGCTG CCAAGCTTCT ACCGCAAACT CGAGAAAGAA AATGGACGCA AGATAGGATC GTGCCTAATA AGCGCAATGC CTGGCTCTTT
CTACGGCAGA CTCTTCCCCG AGGAGTCCAT GCATTTTTTG CACCTTGTT ACAGTGTTCA TTGGTTATCT CAGGTTCCCA GCGGTTTGGT
720
810
                                                                                                           999
 GTTTGTTTT AGTTGGTTT TGTGCCGTTG GGGGTCTTTC GGGTATTGTC GTTTTGTATT CGTAATAAAA GTGATGTGCA AGAATAAGAT
ATTTAGTACA ATATTTCAT AAAAAAAAAA AAAAAAAA
```

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FIG. 3

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MXMT1	MELQEVIAMNEGEGDISYAKVASYN-LALAKVKPFLEQCIRELLRANLEN	49
MTL1	::::::::::::::::::::::::::::::::::::::	50
MTL2	::::::::::::::::::::::::::::::::::::::	50
MTL3	::::::R::G:::::::::::::::::Q:V::::::V:::::V:::::::	50
MXMT1	INKCIKVADI.GCASGEMTLLTVRDIVQSTDKVGQEFKQELFRETIQIFIN	99
MTL1	**************************************	100
MTL2	::::::::::::::::::::::::::::::::::::::	100
MTL3	::::::::::::::::::::::::::::::::::::::	100
MXMT1	DLFONDFNSVFKLLPSFYRKLEKENCRKTGSCLLSAMPGSFYGRLFPEES	149
MTL1	**************************************	150
MTL2	::::::::::::::::::::::::::::::::::::::	150
MTL3	:::P::::::::::::::::::::::::::::::::::	150
MXMT1	MHTLHSCYSVHWLSQVPSGLVTELGTGANKOSTYSSKGCRPPVQKAYTDQ	199
MTL1	::::::S::LQF::::::T::::T::::R::::::ASP:::::::	200
MTL2	::::::S::LQF::::::T::::T::::R::::::ASP:::::::	200
MTL3	::::::::CLQ:::::::T:::::ST:::::::AS:L:::::::	200
MXMT1	FIKDFTFFIRIHSKEIFSRGMLACICKVDEFDERNPLDLLDMAINDLI	249
MTL1	::::::::::::::::::::::::::::::::::::::	250
MTL2	::::::::::::::::::::::::::::::::::::::	250
MTL3	::::::::::::::::::::::::::::::::::::::	250
MXMT1	VBGLIEFFKIDSFNIPFFTPSABEVKCIVEFFGSCETLYLFIFKAHYDAA	299
MTL1	A::R:G:::::::V:IY:A:V:::::M:::::::F:::::Q:::IR::::G	300
MTL2	:::H::::::::::::::::::::::::::::::::::	300
MTL3	:::H::::::L:VYI::::::F:::::VL:::G	300
MXMT1	FSIDIDYPVRSH	343
MTL1	::::::O2::::SPVYSD:HAR:AH::::::::::::::::::::::::::::::::	350
VITL2	:::::OQ::::SPEYSD:HAR;AH::::L:::::::N::::::I::I	350
NTL3	::::::::::::::::::::::::::::::::::::::	337
441.554		
MXMT1	FIRLAKHAAKULHMEKGCYNNLIISLAKKPEKSDV 378	
MTL1	:::F:Di::::Di::::Di::::::::::::::::::::	
MTL2	:::F:TN::::TRL:::F:::::::::::::::::::::::::::::	
MTL3	:::F::::::PL:::F:::::::::::::::::::::::	

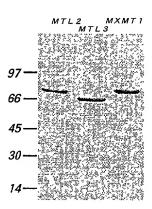
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FIG. 4

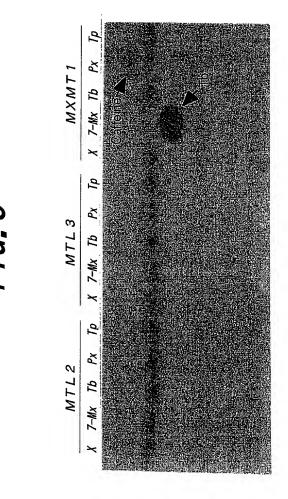


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